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## Amendments to the Claims:

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims

- (Currently amended) Fluorochemical urethane composition comprising:
   one or more oligomers comprising (i) at least one fluorine-containing repeatable unit and
   (ii) at least one fluorine-containing terminal group, and wherein said eempounds or oligomers
   comprise the condensation reaction product of:
  - (a) one or more fluorinated polyols;
  - (b) one or more polyisocyanates; and
  - (c) one or more monofunctional fluorine-containing compounds comprising one functional group that is reactive with the hydroxyl group of said polyol (a) or with the isocyanate group of the polyisocyanate (b).
- 2. (Currently amended) The <u>fluorochemical urethane composition eligomers</u> of claim 1 further comprising the reaction product of one or more water-solubilizing compounds comprising one or more water solubilizing groups and at least one electrophilic or nucleophilic moiety, said solubilizing groups independently pendant from the <u>repeating repeatable</u> unit, or <u>the</u> terminal group portion.
- 3. (Currently amended) The <u>fluorochemical urethane composition</u> water solubilizing empounds of claim 2 wherein said water-solubilizing group is selected from the group consisting of carboxylate, sulfate, sulfonate, phosphonate, ammonium, and quaternary ammonium groups.
- 4. (Currently amended) The <u>fluorochemical urethane composition</u> eligomers of claim 1 further comprising the reaction product of one or more polymerizable compounds comprising one or more polymerizable groups and at least one electrophilic or nucleophilic moiety, said

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polymerizable groups independently pendant from the repeating repeatable unit, or the terminal group portion.

- 5. (Currently amended) The <u>fluorochemical urethane composition polymerizable</u> eompounds of claim 4, wherein said polymerizable groups are selected from the group consisting of acrylate, methacrylate, vinyl, allyl, and glycidyl groups.
- 6. (Currently amended) The <u>fluorochemical urethane composition</u> e<del>ompounds</del> of claim 1 having the formula

 $R_fQ(OR^2O)_o(-CONH-R^1-NHCO-OR^2O-)_n(CONH-R^1-NHCO)_m-Z$  wherein:

n is a number from 1 to 10, inclusive,

o is a number from 0 to 1, inclusive;

m is a number from 0 to 1, inclusive

R<sub>r</sub> is selected from the group consisting of perfluoroalkyl groups having 1 to 12 carbon atoms, and perfluoroheteroalkyl groups having 3 to about 50 carbon atoms;

Q is a divalent linking group;

R<sup>1</sup> is a divalent organic group which is the residue of a polyisocyanate;

R<sup>2</sup> is a divalent organic group which is a residue of the polyol, at least a portion of which is substituted with one or more perfluoroalkyl groups, perfluoroheteroalkyl groups, perfluoroheteroalkylene groups, or mixtures thereof;

Z is R<sub>1</sub>Q-, a water-solubilizing group or a polymerizable group.

7. (Currently amended) The <u>fluorochemical urethane composition oligomer</u> of claim 6, wherein Q is selected from the following structures, wherein each k is independently an integer from 0 to about 20, R<sub>1</sub>' is hydrogen, phenyl, or alkyl of 1 to about 4 carbon atoms, and R<sub>2</sub> ' is alkyl of 1 to about 20 carbon atoms:

-SO<sub>2</sub>NR<sub>1</sub>'(CH<sub>2</sub>)<sub>k</sub>O(O)C-, -CONR<sub>1</sub>'(CH<sub>2</sub>)<sub>k</sub>O(O)C-, -(CH<sub>2</sub>)<sub>k</sub>O(O)C-,

 $-CH_2CH(OR_2')CH_2O(O)C_1$ ,  $-(CH_2)_kC(O)O_2$ ,  $-(CH_2)_kSC(O)_2$ 

 $-(CH_2)_kO(CH_2)_kO(O)C_1$ ,  $-(CH_2)_kS(CH_2)_kO(O)C_2$ ,  $-(CH_2)_kSO_2(CH_2)_kO(O)C_3$ 

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-(CH<sub>2</sub>)<sub>k</sub>S(CH<sub>2</sub>)<sub>k</sub>OC(O)-, -(CH<sub>2</sub>)<sub>k</sub>SO<sub>2</sub>NR<sub>1</sub>'(CH<sub>2</sub>)<sub>k</sub>O(O)C-, -(CH<sub>2</sub>)<sub>k</sub>SO<sub>2</sub>-,
-SO<sub>2</sub>NR<sub>1</sub>'(CH<sub>2</sub>)<sub>k</sub>O-, -SO<sub>2</sub>NR<sub>1</sub>'(CH<sub>2</sub>)<sub>k</sub>-, -(CH<sub>2</sub>)<sub>k</sub>O(CH<sub>2</sub>)<sub>k</sub>C(O)O-,
-(CH<sub>2</sub>)<sub>k</sub>SO<sub>2</sub>NR<sub>1</sub>'(CH<sub>2</sub>)<sub>k</sub>C(O)O-, -(CH<sub>2</sub>)<sub>k</sub>SO<sub>2</sub>(CH<sub>2</sub>)<sub>k</sub>C(O)O-, -CONR<sub>1</sub>'(CH<sub>2</sub>)<sub>k</sub>C(O)O-,
-(CH<sub>2</sub>)<sub>k</sub>S(CH<sub>2</sub>)<sub>k</sub>C(O)O-, -CH<sub>2</sub>CH(OR<sub>2</sub>')CH<sub>2</sub>C(O)O-, -SO<sub>2</sub>NR<sub>1</sub>'(CH<sub>2</sub>)<sub>k</sub>C(O)O-,
-(CH<sub>2</sub>)<sub>k</sub>O-, -C<sub>k</sub>H<sub>2k</sub>-OC(O)NH-, -C<sub>k</sub>H<sub>2k</sub>-NR<sub>1</sub>'C(O)NH-, -OC(O)NR'(CH<sub>2</sub>)<sub>k</sub>-,
-(CH<sub>2</sub>)<sub>k</sub>NR<sub>1</sub>'- and -(CH<sub>2</sub>)<sub>k</sub>NR<sub>1</sub>'C(O)O-,

-CONR <sub>1</sub> '(CH <sub>2</sub> ) <sub>k</sub> O(O)C-
-CH <sub>2</sub> CH(OR <sub>2</sub> ')CH <sub>2</sub> O(O)C-
-(CH <sub>2</sub> ) <sub>k</sub> SC(O)-
-(CH <sub>2</sub> ) <sub>4</sub> S(CH <sub>2</sub> ) <sub>2</sub> O(O)C
-(CH <sub>2</sub> ) <sub>k</sub> S(CH <sub>2</sub> ) <sub>k</sub> OC(O)-
- <del>(CH<sub>2</sub>)<sub>k</sub>SO</del> 2-
-SO <sub>2</sub> NR <sub>1</sub> '(CH <sub>2</sub> ) <sub>k</sub> -
-(CH <sub>2</sub> ) <sub>k</sub> SO <sub>2</sub> NR <sub>1</sub> '(CH <sub>2</sub> ) <sub>k</sub> C(O)O-
-CONR <sub>1</sub> '(CH <sub>2</sub> ) <sub>k</sub> C(O)O-
-CH2CH(OR2')CH2C(O)O
<del>(CH₂)<sub>k</sub>O-</del>
-C <sub>k</sub> H <sub>2k</sub> -NR <sub>4</sub> 'C(O)NH-,
-(CH <sub>2</sub> ) <sub>W</sub> NR <sub>4</sub> '- and
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8. (Currently amended) The <u>fluorochemical\_urethane composition</u> <del>oligomors</del> of claim 1 comprising <u>oligomers</u> <del>compounds</del> of the Formula:  $R_{I}Q(-CONH-R^{1}-NHCO-OR^{2}O-)_{n}(CONH-R^{1}-NHCO)_{m}-QR_{f}$ 

n is a number from 1 to 10 inclusive;

wherein:

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m is 1;

 $R_f$  is a perfluoroalkyl group having 1 to 12 carbon atoms, or a perfluoroheteroalkyl group having 3 to about 50 carbon atoms with all perfluorocarbon chains present having 1 to 6;

Q is  $-C_kH_{2k}$ -OC(O)NH- or [[ $-C_kH_{2k}$ -NRC(O)NH-]]  $-C_kH_{2k}$ -NR<sub>1</sub>'C(O)NH-, wherein R<sub>1</sub>' is H or lower alkyl, and k is an integer from 0 to about 20;

R1 is a straight chain alkylene, of 1 to 14 carbon atoms;

R<sup>2</sup> is a polyvalent organic group which is a residue of the polyol[[,]]; that is a straight or branched chain alkylene, cycloalkylene, arylene or heteroalkylene group of 1 to 14 carbon atoms; and at least a portion of the R<sup>2</sup> groups are substituted with or contain one perfluoroalkyl group, perfluoroheteroalkyl group, perfluoroheteroalkylene group, or mixtures thereof.

- 9. (Currently amended) The <u>fluorochemical urethane</u> composition of claim 1 wherein the oligomer comprises the condensation reaction product of one or more fluorinated polyols, one or more non-fluorinated polyols, one or more polyisocyanates and one or more monofunctional fluorine-containing compounds.
- 10. (Currently amended) The <u>fluorochemical urethane</u> composition of claim 1 wherein the oligomer comprises the condensation reaction product of one or more fluorinated polyols, an excess amount (relative to the polyol) of one or more linear alkylene diisocyanates, and sufficient fluorinated monoalcohols to react with the terminal isocyanate groups
- 11. (Currently amended) The fluorochemical <u>urethane</u> composition of Claim 1 wherein the fluorine containing group of said <u>fluorinated</u> polyol is a perfluoroalkyl group of 1 to 12 carbon atoms.
- 12. (Currently amended) The fluorochemical <u>urethane</u> composition of Claim 1 wherein the fluorine containing group of said <u>fluorinated</u> polyol is a perfluoroalkyl group of 3 to 5 carbon atoms.

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13. (Currently amended) The fluorochemical <u>urethane</u> composition of Claim 1 wherein the wherein the fluorine containing group of said <u>fluorinated</u> polyol is a <del>perfluoroalkyl group of is</del> perfluorobutyl group.

14. (Currently amended) The fluorochemical <u>urethane</u> composition of Claim 1 wherein the monofunctional fluorine-containing compound is a compound of the following formula [[I]]:  $R_{\Gamma} = Q'$ 

wherein:

R<sub>f</sub> is selected from the group consisting of perfluoroalkyl groups group having 1 to 12 carbon atoms, and perfluoroheteroalkyl groups group having 3 to about 50 carbon atoms with all perfluorocarbon chains present having 6 or fewer carbon atoms;

Q' is a [[a]] functional group that is reactive with the terminal isocyanate of the polyisocyanate or terminal hydroxy group of the fluorinated polyol.

- 15. (Currently amended) The <u>fluorochemical urethane composition monofunctional fluorine-containing compound</u> of claim 14 wherein Q' <u>of said monofunctional fluorine-containing compound</u> is selected from hydroxyl, secondary amino, oxazolinyl, oxazolonyl, acetyl, acetonyl, carboxyl, isocyanato, epoxy, aziridinyl, thio, and acyl halide groups.
- 16. (Currently amended) The fluorochemical <u>urethane</u> composition of claim 1 wherein said fluorochemical oligomer further comprises the reaction product of one or more non-fluorinated polyols.
- 17. (Currently amended) A coating composition comprising a mixture comprising:
  - (a) a solvent; and
  - (b) the fluorochemical <u>urethane</u> composition of Claim 1.
- 18. (Currently amended) The coating composition of claim 17 wherein the fluorochemical urethane composition further comprises one or more water-solubilizing groups.

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- 19. (Currently amended) The coating composition of claim 18 wherein said mixture comprises an and aqueous solution, dispersion or suspension.
- 20. (Currently amended) An article comprising:
  - (a) a substrate having one or more surfaces; and the fluorochemical <u>urethane</u> composition of Claim 1 coated on one or more surfaces of said substrate.
- 21. (Currently amended) The article of Claim 20 wherein the fluorochemical <u>urethane</u> composition further comprises one or more water-solubilizing groups.
- 22. (Currently amended) The article of Claim 20 wherein the fluorochemical <u>urethane</u> composition further comprises one or <u>more</u> polymerizable groups.
- 23. (withdrawn) The article of Claim 20 wherein the substrate is selected from the group consisting of hard substrates and fibrous substrates.
- 24. (withdrawn) A method of imparting repellency to a substrate, having one or more surfaces, comprising the steps of:

applying the coating composition of claim 17 onto one or more surfaces of said substrate; and

curing the coating composition at ambient or elevated temperature.

- 25. (Currently amended) A polymer composition comprising:
  - (a) the fluorochemical <u>urethane</u> composition of claim 1; and
  - (b) at least one thermoplastic or thermoset polymer.
- 26. (withdrawn) The composition of Claim 25 wherein said thermoplastic polymer is selected

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from the group consisting of polypropylene, polyethylene, polyacrylates, polymethacrylates, copolymers of ethylene and one or more alpha-olefins, polyesters, polyurethanes, polycarbonates, polyetherimides, polyimides, polyetherketones, polysulfones, polystyrenes, ABS copolymers, polyamides, fluoroplastics, and blends thereof; and said thermoset polymer is selected from the group consisting of polyurethanes, epoxy resins, fluoroelastomers, polyacrylates, polymethacrylates, and unsaturated polyesters, and blends thereof.

- 27. (withdrawn) The composition of Claim 25 wherein said composition is prepared by melt blending the fluorochemical composition and the thermoplastic polymer.
- 28. (withdrawn) A shaped article comprising the polymer composition of claim 25, wherein said shaped article is selected from fibers, films, and molded articles.
- 29. (Currently amended) A process for preparing shaped article comprising the steps of:
  - (a) combining the fluorochemical <u>urethane</u> composition of claim 1 and at least one thermoplastic polymer; and
  - (b) melt processing the resulting combination.